Know the Earth…Show the Way

NGA TODAY

presented to

the Community Imagery Training Council

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Director

20 April, 2004

This briefing is
UNCLASSIFIED/FOUO

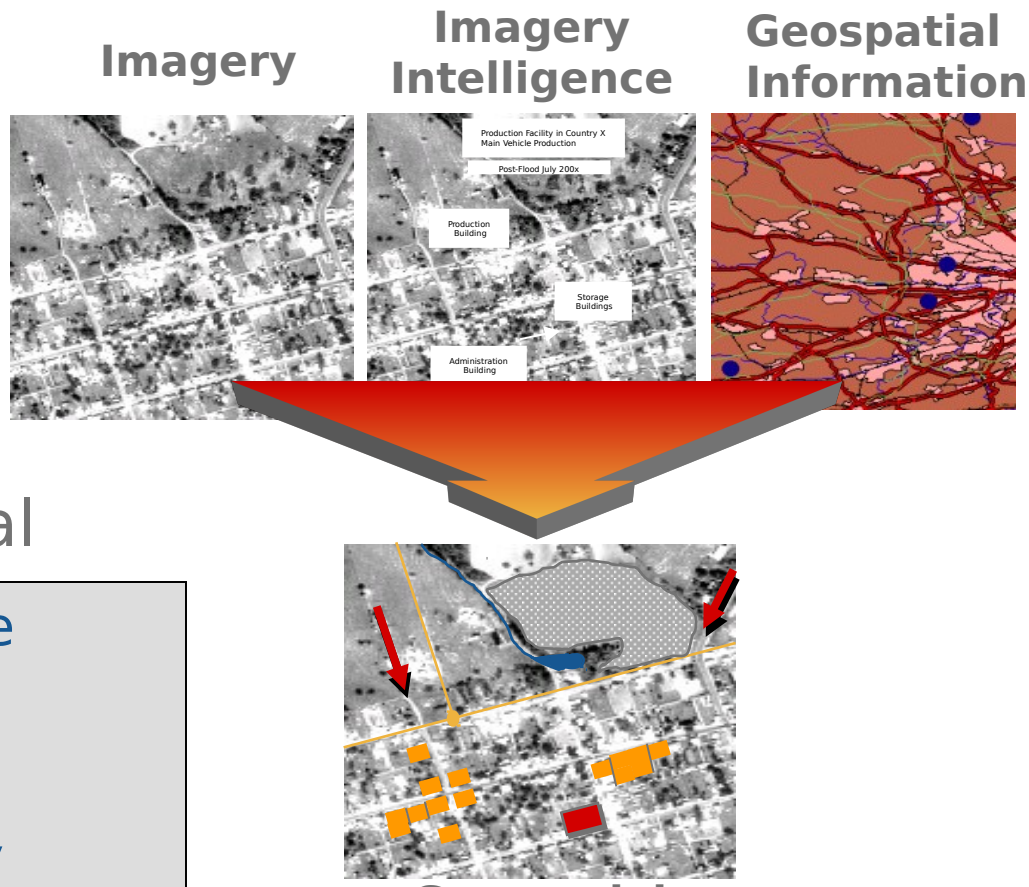
What We'll Talk About…

- What is NGA and What Do We Do?
- What is Geospatial Intelligence and Why is it Important?
- How is NGA Transforming?
- Role of the CITC
- Some "Take-Aways"

What is NGA and What Do We Do?

NGA is a National Intelligence and Combat Support Agency

- Mission:
  - Provide Timely, Relevant, and Accurate Geospatial Intelligence in Support of National



Geospatial intelligence is "the exploitation and analysis of imagery and geospatial information to describe, assess, and visually depict physical features and geographically referenced activities on the Earth"

What is NGA and What Do We Do?

Our vision…

Know the Earth…Show the Way

by…

…Providing geospatial intelligence in all its forms, and from whatever source –imagery and geospatial– to ensure the knowledge foundation for planning, decision, and action.

…Affording easy access to geospatial intelligence data, for <u>all</u> stakeholders.

…Creating tailored, customer- specific geospatial intelligence; providing analytic services and solutions; and sharing insight.

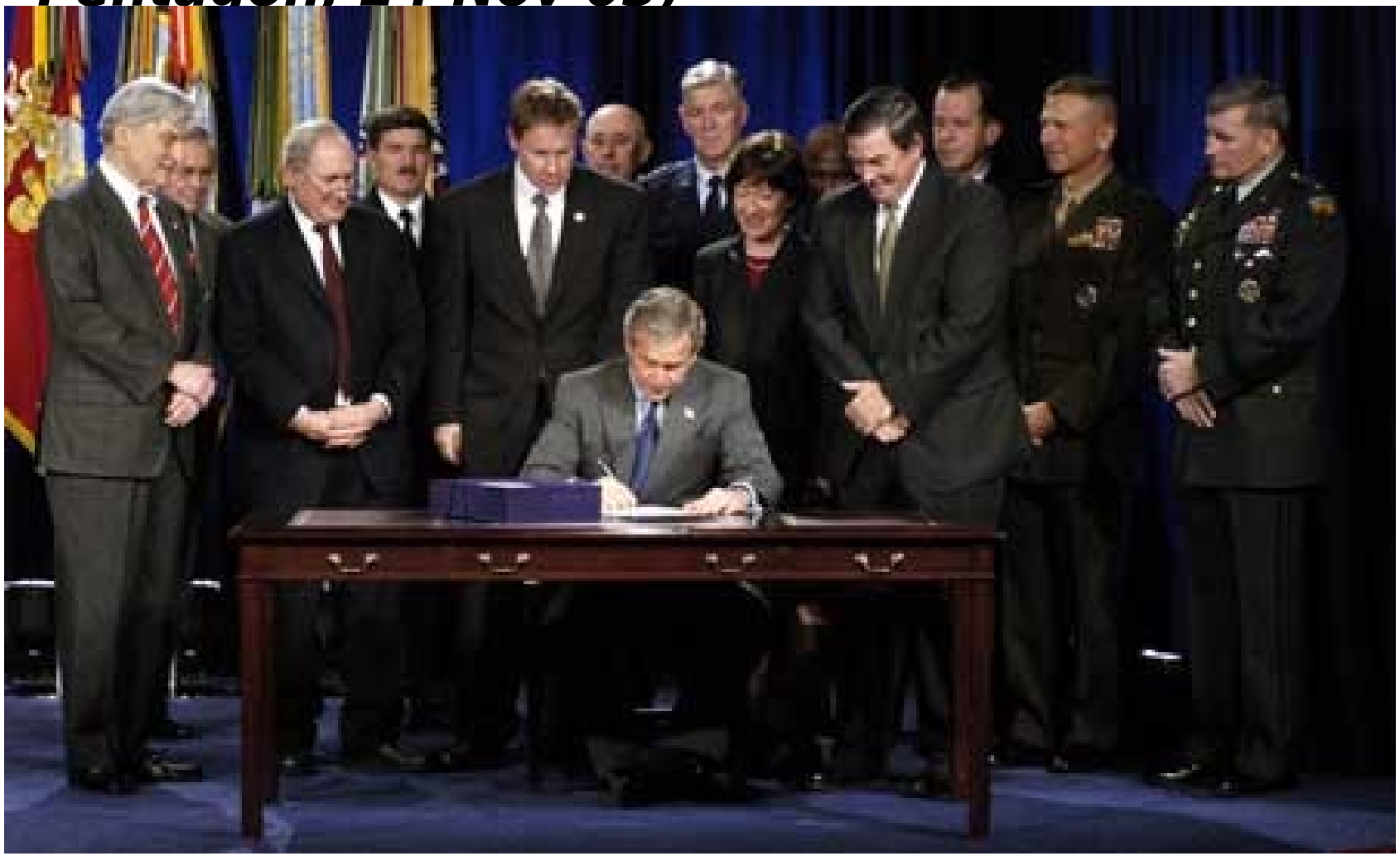
What is NGA and What Do We Do?

Established as NIMA in 1996 to integrate imagery intelligence and mapping functions

- Incorporated Entirely:
  - Defense Mapping Agency
  - Central Imagery Office
  - Defense Dissemination Program Office
  - National Photographic Interpretation Center
- Incorporated Imagery Elements Of:
  - Defense Airborne Reconnaissance Office
  - National Reconnaissance Office
  - Defense Intelligence Agency
  - Central Intelligence Agency
- Name Changed on 24 Nov 03 to NGA

What is NGA and What Do We Do?

Signing of the Defense Authorization Act *(the Pentagon, 24 Nov 03)*



What is NGA and What Do We Do?

From NIMA to NGA…symbolizing transformation

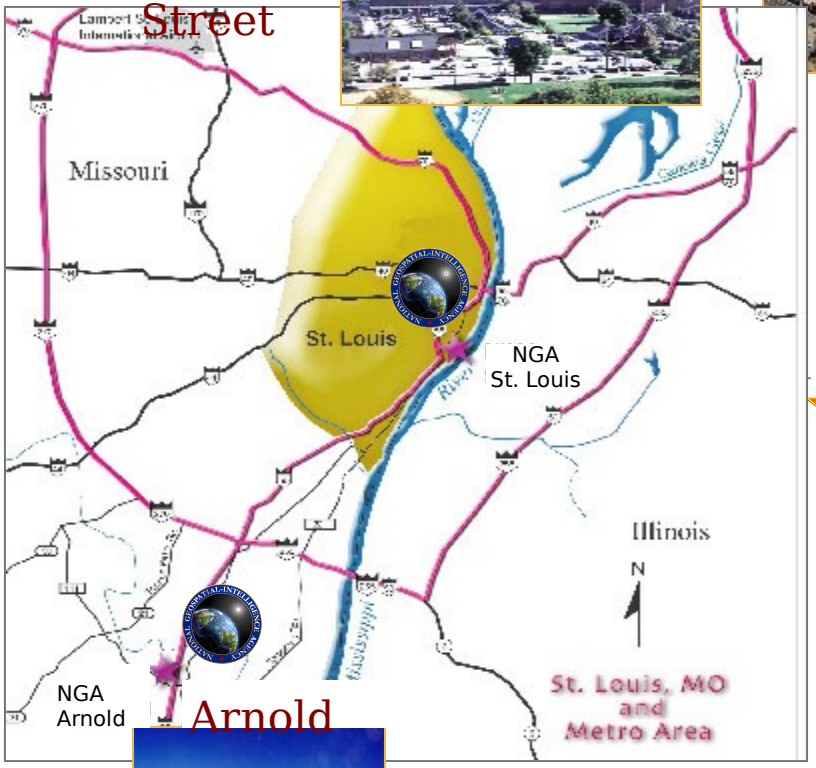
What is NGA and What Do We Do?

NGA Fa.....

Second Street

Rest

Bethes



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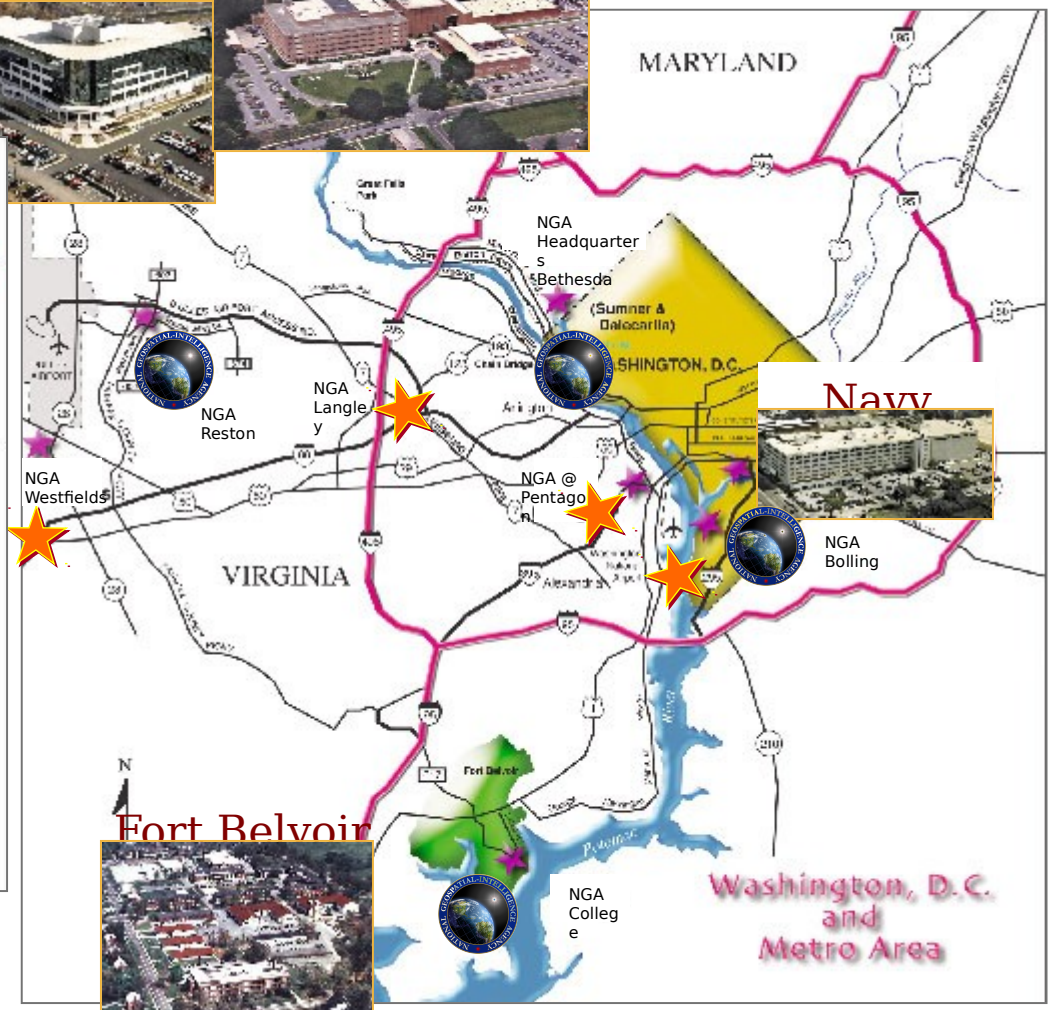

Fort Belvoir

A management and force protection challenge

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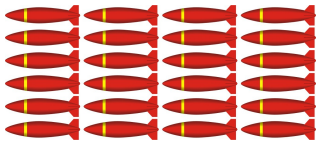
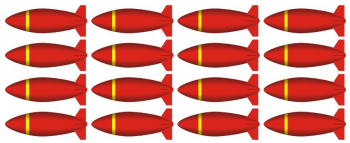
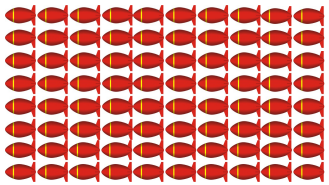
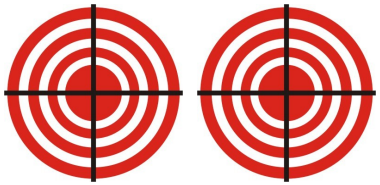
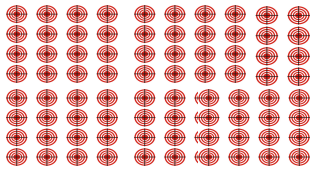
What is Geospatial Intelligence and Why is it Important?

Information about any object - natural or man-made - that can be observed or referenced to the earth, and has national security implications

- Where am I?
- Where are the Friendlies?
- Where are the Enemies?
- Where are the Non-Combatants?
- How do I move or navigate among them?
- What is the Environment?
- What does it mean?
- What is the impact?

What is Geospatial Intelligence and Why is it Important?

Geospatial intelligence: A short picture history

1943	1970	1991	2004
			
1500 B-17 sorties **9000 x 250 lb. bombs** One 60’ x 100’ target W.W. II	**30 F- 4 sorties** **176 x 500 lb. bombs** One Target Vietnam	**1 F-117 sortie** **2 x 2000 lb. bombs** Two Targets per Sortie Desert Storm	**1 B-2 sortie** **80 x 500 lb. bombs** 80 Targets per Pass Available Today
			

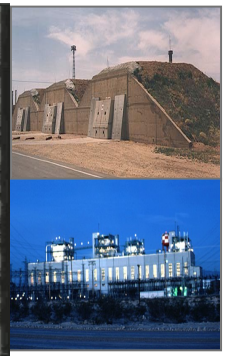
“We Map ‘Em, You Zap ‘Em”

What is Geospatial Intelligence and Why is it Important?

The Changing Challenge….

Above Surface

Moving



12 - 24 Hours

4 - 12 Hours

0 - 4 Hours

Traditional NTM Coverage

Denial and Deception

Below Surface

Characterized

Uncharacterized

What is Geospatial Intelligence and Why is it Important?

The Technical Landscape: Forms of Imagery

ElectroOptical

- 1 Band

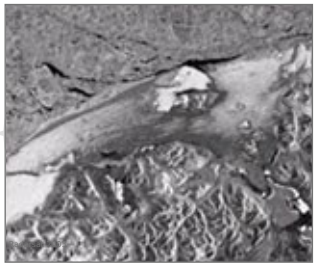
- Location
- Classification
- Mensuration
- Capacity
- Activity

Infrared

- 1 Band

- Radiometrics
- Thermometry
- Status
  - Operational potential

Radar



- 1 Band

- Location
- Mensuration
- Change Detection
- Dynamic imaging
- Phase analysis
- Counter D&D
- Materials classification

Multispectral

- Multiple Bands

- Terrain Categorization
- Target Detection and Identification
- Camouflage Detection
- Land Use & Classification
- Crop Assessment
- Trafficability
- LOC Extraction

Hyperspectral

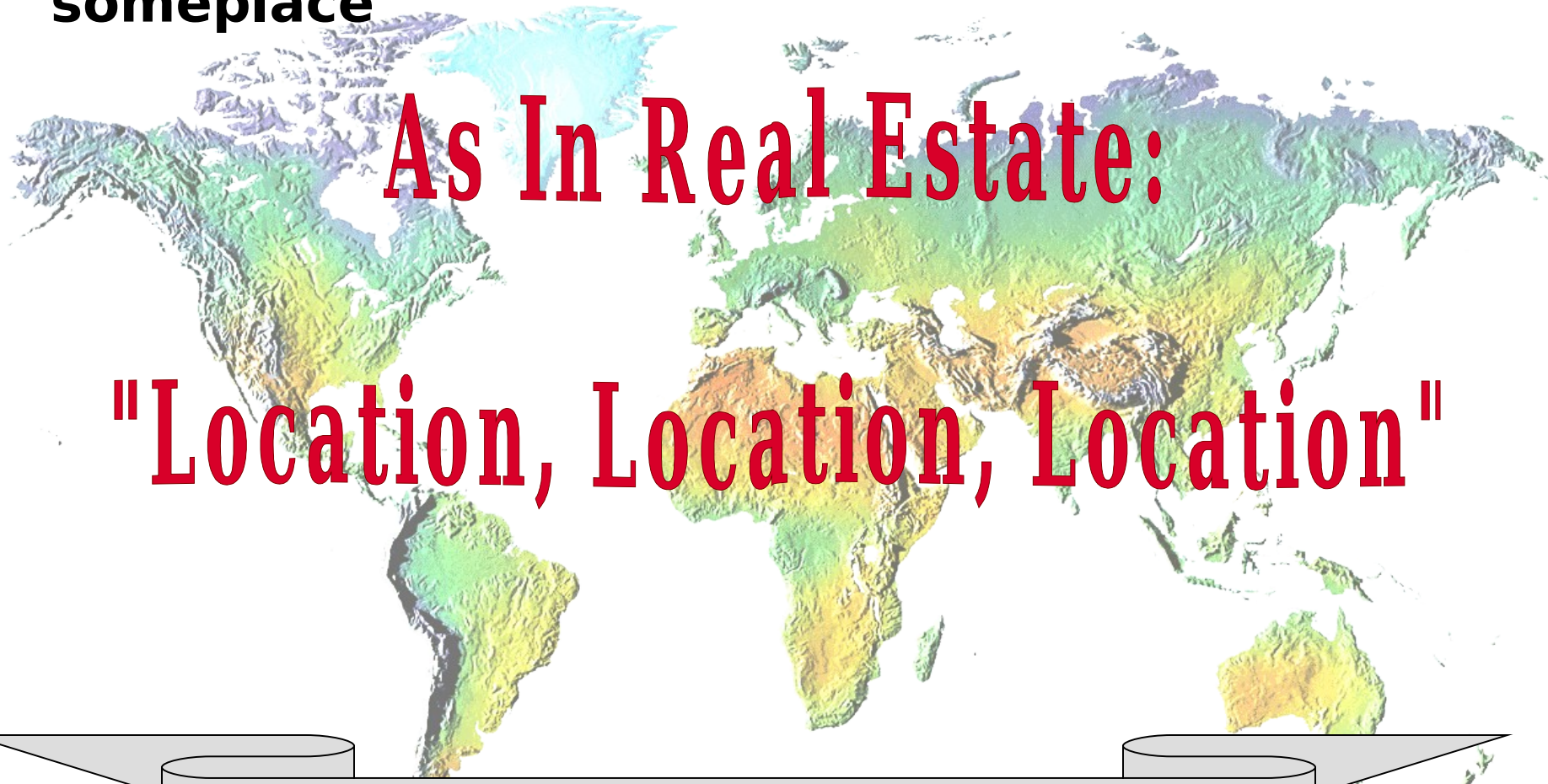
- 100s of Bands

- Materials Identification
- Vegetative Change
- Camouflage Identification
- Battle Damage Assessment
- Taggants

We must exploit all forms

What is Geospatial Intelligence and Why is it Important?

Everything and everybody must be someplace



As In Real Estate:

"Location, Location, Location"

"Without geospatial intelligence, you're lost!"

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How is NGA Transforming?

Our organizing principle - *Now, Next, After Next* - designed to foster transformation

STAFF Offices

Director
Deputy Director
Executives

Military | **Business** | **Technical** | **Western**

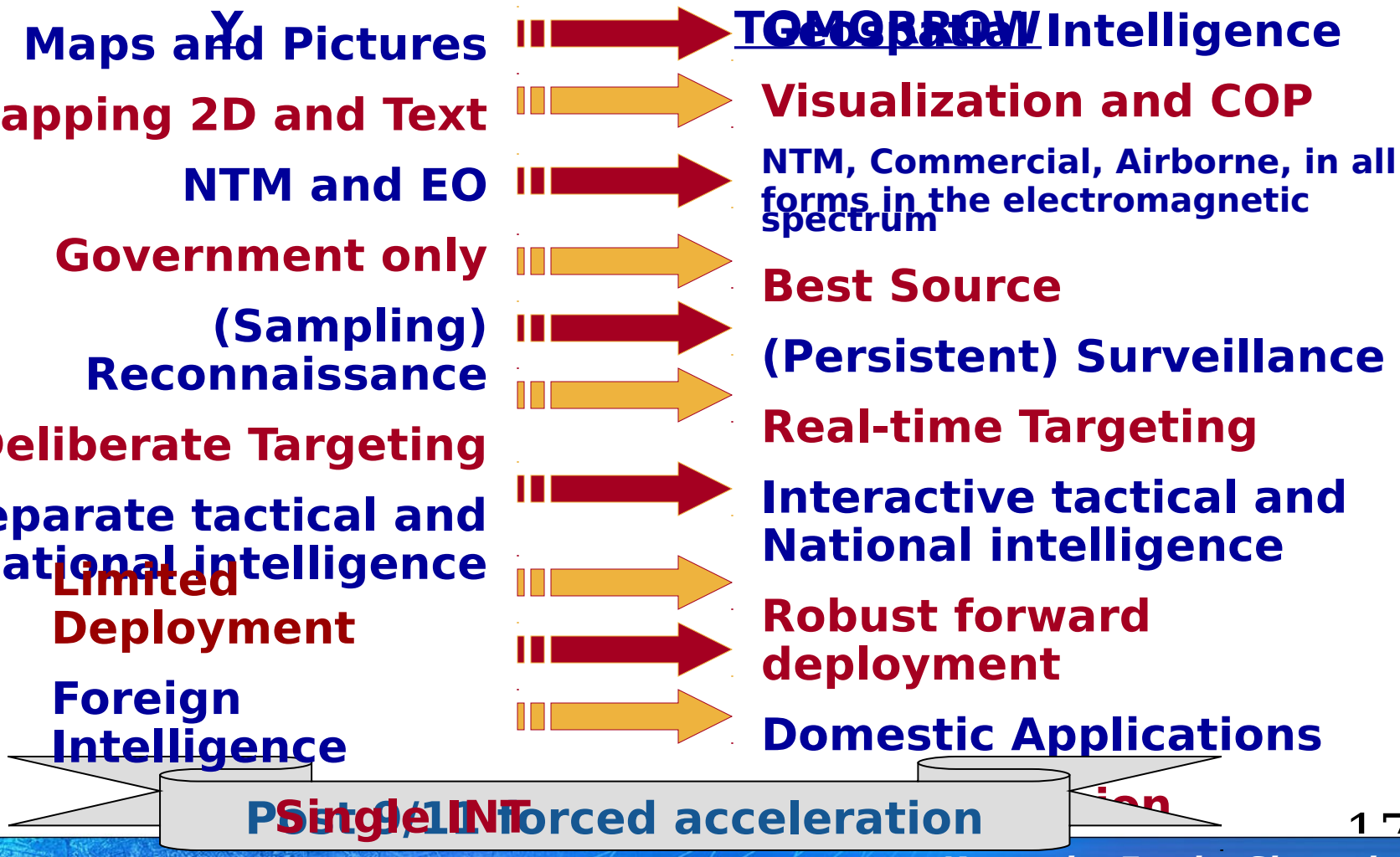
LINE Directorates

ENABLER Organizations

Human Development | **Financial Management** | **Security & Installations**

How is NGA Transforming?

Trends transforming NGA



How is NGA Transforming?

Transforming to a new discipline that is greater than the sum of its parts…

The Future State:

- Geospatial intelligence analysis
- All-digital, data-centric business environment
- Seamless, comprehensive e-business strategy
- Ubiquitous knowledge map

This is what the vision ain't…

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Role of the CITC

Where this forum comes in

- Articulate future requirements for GEOINT training
- Provide intelligence and vision for how we as a community will support the COP
- Think about how we as a Community support the tracking of fleeting targets and enhance our ability to do real-time targeting
- Provide feedback on how we are meeting GEOINT training needs

Role of the CITC

Agenda

- Rob Zitz, Technical Executive
  - -Future of GEOINT and where NGA is headed
  - -Persistent TPED
- Will Hopkins, Fusion Executive
  - -Merging our training: Geospatial Intelligence Training Program (GITP)
- Modifications to the CITC Charter
- Updates:
  - -Community Imagery Analysis Course (CIAC)
  - -IEC workstations and FIA/NSG segment training
  - -Advanced Geospatial Intelligence (AGI)
- Working group reports, action item review

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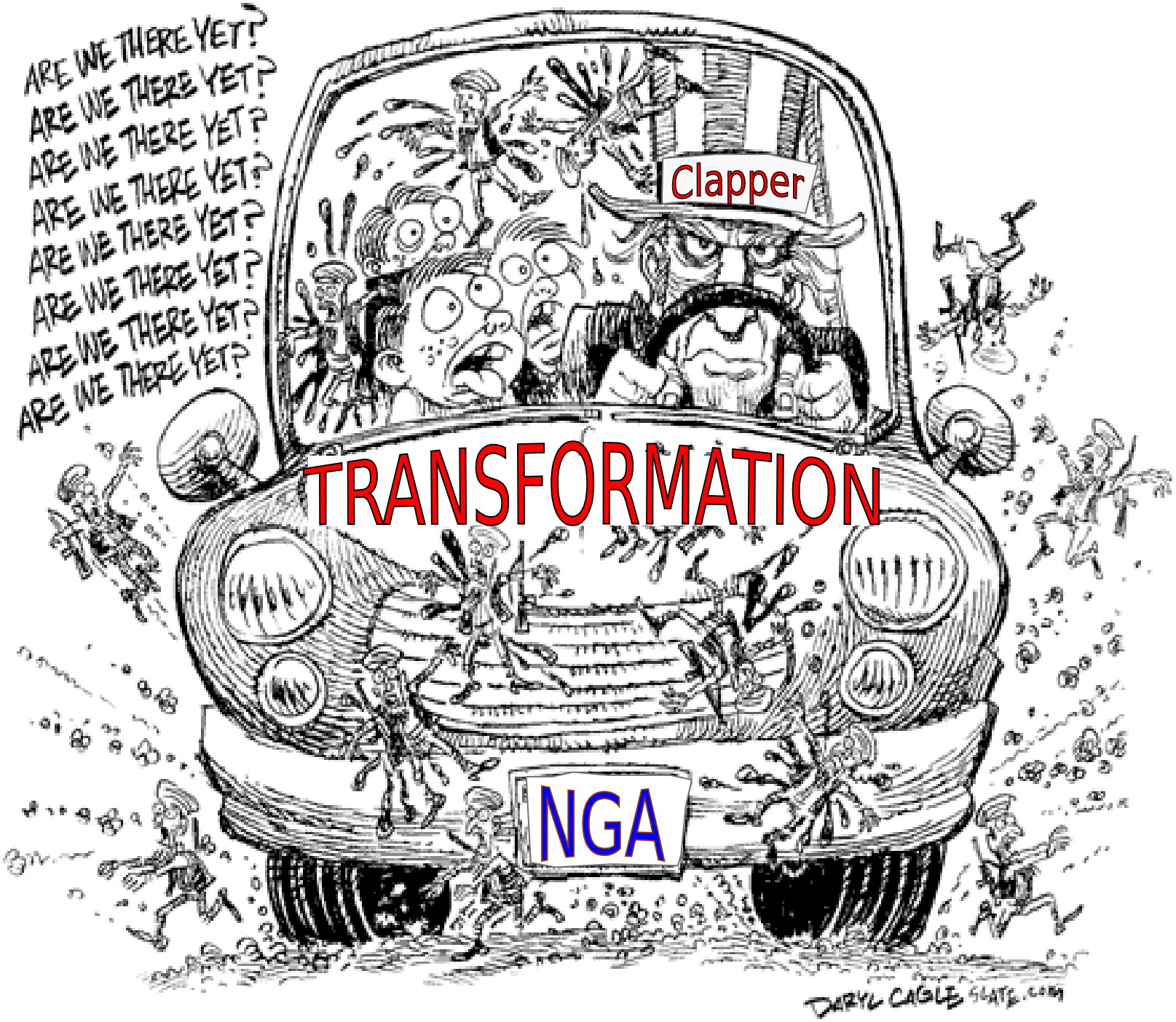
Some "Take-Aways"

1. All of NGA's Core Competencies Comprise Geospatial Intelligence
2. Geospatial Intelligence Provides the Foundational "Knowledge Map"
3. NGA is both a Combat Support Agency, and a National Intelligence Agency
4. We Are Transforming
5. People are Our #1 Treasure
6. We are looking to the CITC to help articulate future requirements for GEOINT training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NGA
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NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

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